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(REV 10-95)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

## TRANSMITTAL LETTER TO THE UNITED STATES

826

DESIGNATED/ELECTED OFFICE (DO/EO/US)

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

CONCERNING A FILING UNDER 35 U.S.C. 371

09/367569

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE

PRIORITY DATE CLAIMED

PCT/DE 98/00482

FEBRUARY 18, 1998

FEBRUARY 20, 1997

TITLE OF INVENTION

RADIO APPARATUS

APPLICANT(S) FOR DO/EO/US

Wolfgang WEIDNER, Hans MURGAS, Bernt KLEIN

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☐ A copy of the International Search Report (PCT/ISA/210).
8. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
9. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
10. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

## Items 13 to 18 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.  
A **SECOND** or **SUBSEQUENT** preliminary amendment.
16. ☐ A substitute specification.
17. ☐ A change of power of attorney and/or address letter.
18. ☒ Certificate of Mailing by Express Mail
19. ☐ Other items or information:

EJ 874959485 US

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.53) <div style="font-size: 2em; font-weight: bold; margin-top: 5px;">09/367569</div>	INTERNATIONAL APPLICATION NO. <div style="font-weight: bold; margin-top: 5px;">PCT/DE 98/00482</div>	ATTORNEY'S DOCKET NUMBER <div style="font-weight: bold; margin-top: 5px;">826</div>
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20. The following fees are submitted: <b>BASIC NATIONAL FEE ( 37 CFR 1.492 (a) (1) - (5)) :</b>				CALCULATIONS PTO USE ONLY	
<input type="checkbox"/> Search Report has been prepared by the EPO or JPO .....		\$930.00			
<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) .....		\$720.00			
<input type="checkbox"/> No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) .....		\$790.00			
<input checked="" type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO .....		\$1,070.00			
<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) .....		\$98.00			
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>			\$970.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).			\$0.00		
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	8 - 20 =	0	x \$22.00	\$0.00	
Independent claims	1 - 3 =	0	x \$80.00	\$0.00	
Multiple Dependent Claims (check if applicable).			<input type="checkbox"/>	\$0.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>			\$970.00		
Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (check if applicable).			<input type="checkbox"/>	\$0.00	
<b>SUBTOTAL =</b>			\$970.00		
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).			+	\$0.00	
<b>TOTAL NATIONAL FEE =</b>			\$970.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).			<input type="checkbox"/>	\$0.00	
<b>TOTAL FEES ENCLOSED =</b>			\$970.00		
			Amount to be: refunded	\$	
			charged	\$	

☒ A check in the amount of **\$970.00** to cover the above fees is enclosed.

☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the above fees.  
 A duplicate copy of this sheet is enclosed.

☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. **19-4675** A duplicate copy of this sheet is enclosed.

**NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.**

SEND ALL CORRESPONDENCE TO:

**STRIKER, STRIKER & STENBY**  
**103 EAST NECK ROAD**  
**HUNTINGTON, NEW YORK 11743**

SIGNATURE

**MICHAEL J. STRIKER**

NAME

**27233**

REGISTRATION NUMBER

**AUGUST 17, 1999**

DATE

**UNITED STATES PATENT AND TRADEMARK OFFICE**

*In re:*

*Applicant:* WEIDNER, W., et al

*Corresp. to:* PCT/DE 98/00482

*Filed:* Simultaneously

***SIMULTANEOUS AMENDMENT***

August 7, 1999

Hon. Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

Sir:

Simultaneously with filing of the above identified application,  
please amend the same as follows:

In the specification:

Page 1, line 2, replace "Prior Art" with -- Background of the  
Invention --,

line 3, delete "as generically",

line 4, delete "defined by the preamble to the main  
claim",

line 8, replace "Advantages of the Invention" with --  
Summary of the Invention

In keeping with these objects and with others one feature of  
present invention resides, briefly stated, in that at least one first operating  
mode is provided, in which information about this operating mode is  
associated in the display device with the at least one control element, and  
the information in a second operating mode associated with the first  
operating mode is converted into a function for activating the first operating  
mode, which function can be activated by the at least one control element.

--,

line 9, delete "having the",

line 10, delete "characteristics of the main claim",

Last three lines from bottom, delete in their entirety.

Page 2, line 25, replace "Drawing" with -- Brief Description of

the Drawings --.

Page 3, line 7, replace "Exemplary" with -- Preferred --.

In the claims:

Cancel all claims without prejudice.

Add the following claims:

9. A radio apparatus embodied in a radio telephone, comprising a display device; at least one control element for selecting and/or activating functions of the radio apparatus which are displayed on said display device; said at least one control element being disposed neighboring said display device so that a local association exists between said at least one control element and displaying of functions of the radio apparatus on said display device; means for providing at least one first operating mode in which information about said first operating mode is associated in said display device with at said at least one control element, and information in a second operating mode associated with said first operating mode is converted into a function for activating said first activating mode, which function is activateable by said at least one control element.

10. A radio apparatus as defined in claim 9, wherein between said at least one control element and the displaying of the associated functions of the radio apparatus on said display device, graphic symbols are displayable on said display device.

11. A radio apparatus as defined in claim 10, wherein said graphic symbol displayable on said display device are shaped as arrows.

12. A radio apparatus as defined in claim 9; and further comprising a housing provided for the radio apparatus and having an upper surface, said display device being rectangular and disposed on said upper surface of said housing, said at least one control element being disposed on at least one side of said display device.

13. A radio apparatus as defined in claim 9, wherein said at least one control element is lightable.

14. A radio apparatus as defined in claim 9, wherein said at least one control element is formed so that through said at least one control element subitems in an operating manual can be selected and/or activated.

15. A radio apparatus as defined in claim 9, wherein said at least one control element is formed so that through said at least one control

[illegible][illegible][illegible][illegible][illegible][illegible]

device, means for providing at least one first operating mode in which information about the first operating mode is associated in the display device with at the at least one control element, and information in a second operating mode associated with the first operating mode is converted into a function for activating the first activating mode, which function is activateable by the at least one control element.



[illegible]

With the present Amendment, applicants have amended the specification to bring it in compliance with the requirements of the U.S. Patent Practice.

Also, a new abstract of the disclosure has been submitted.

Should the Examiner require or consider it advisable that the specification, claims and/or drawings be further amended or corrected in formal respects in order to place this case in condition for final allowance, then it is respectfully requested that such amendments or corrections be carried out by Examiner's Amendment, and the case be passed to issue.

Any costs involved should be charged to the deposit account of the undersigned (No. 19-4675). Alternatively, should the Examiner feel that a personal discussion might be helpful in advancing this case to allowance, he is invited to telephone the undersigned (at 516-549-4700).

Respectfully submitted,



Michael J. Striker  
Attorney for Applicants  
Reg. No. 27233

RADIO APPARATUS

## 5 Prior Art

The invention is based on a radio apparatus as generically defined by the preamble to the main claim.

10 From German Patent Application 1 96 05 373.0, which had not yet been published by the filing date of the present application, a cordless telephone with a display device is already known.

## Advantages of the Invention

15 The radio apparatus according to the invention having the characteristics of the main claim has the advantage over the prior art that at least one control element for selecting and/or activating functions of the radio apparatus that can be displayed  
20 on the display device is provided, and that the at least one control element is disposed in the preferably immediate vicinity of the display device, so that a local association exists between the at least one control element and the display of the functions of the radio apparatus one on the display device. In this way,  
25 the operation and clarity for the user are made considerably simpler and better. This also makes operation faster and more reliable.

30 By the provisions recited in the dependent claims, advantageous refinements of and improvements to the radio apparatus defined by the main claim are possible.

It is advantageous that between the at least one control element and the display of the associated functions of the radio apparatus on the display device, graphic symbols preferably shaped as arrows can be displayed on the display device. In this way, the local association of the at least one control element for displaying the associated functions is further improved, and the clarity for the user is increased.

In particular the fact that at least one control element can light up is advantageous. This makes easy, certain and rapid operation possible, above all even in the dark.

It is also advantageous that a control field, preferably with an alphanumeric keypad, is provided, and that the at least one control element is located away from the control field. In this way, keys in the control field are economized on, and the control field becomes clearer and simpler to use for the user, thus increasing the ease of use.

It is also advantageous that the at least one control element is disposed in the preferably immediate vicinity of the peripheral region of the upper service of the housing of the radio apparatus. In this way, the at least one control element is better accessible to the user, so that it is possible to operate the at least one control element with the fingers of the hand holding the radio apparatus. In other words, the radio apparatus can be operated appropriately with one hand.

Drawing

Exemplary embodiments of the invention are shown in the drawing and described in further detail in the ensuing

description. Fig. 1 shows a front view of a mobile phone, and Figs. 2 through 9 each show one example for an association of menu subitems, shown on the display device, with corresponding control elements, and Fig. 10 shows the display on a display device of the radio apparatus of a basic menu for guiding the user.

### Description of the Exemplary Embodiment

In Fig. 1, reference numeral 1 identifies a radio apparatus embodied as a radio telephone, which can for instance be embodied as either a mobile phone or a cordless phone. On the upper surface 20 of its housing, the radio apparatus 1 has a control field 25 with an alphanumeric 10- key keypad 30, a star key (\*) 35, and a pound key (#) 40. The control field 25 also includes a first fork contact key 45 for accepting an incoming call or for loop occupation and a second fork contact key 50 for ending a call state or releasing the loop. These two functions can also be embodied by a single key. The control field 25 also includes a basic state key 55 for activating the display of a basic operating menu on a display device 5 disposed above the control field 25 on the upper surface 20 of the housing. The control field 25 also includes an information key 65, by whose actuation an information text on a currently set menu point is shown on the display device 5. By actuating a backspace key 60, also disposed in the control field 25, the control operation most recently performed is rescinded; for instance, the last digit entered to dial a call is erased, or a switch is made, from showing an information text about the currently set menu point on the display device 5, back to showing the currently set menu point itself on the display device 5, or the like. The display device 5 is substantially rectangular, and one of the two long sides is

oriented toward the control field 25, while the other long side is oriented toward an antenna 70 on the upper edge of the radio apparatus 1. Between the left short side and the left edge of the upper surface 20 of the housing, a first control element 11, a second control element 12, and a third control element 13 are disposed along this short side on this surface 20 of the housing. Between the right-handed short side of the display device 5 and the right edge of the surface 20 of the housing, a fourth control element 14, fifth control element 15 and sixth control element 16 are disposed along this short side. The six control elements 11, ..., 16 are dimensioned in size such that they are disposed both in the immediate vicinity of the display device 5 and in the immediate vicinity of the peripheral region of the surface 20 of the housing of the radio apparatus 1. In this way, the control elements 11, ..., 16 can be associated directly and locally with the functions of the radio apparatus 1 that can be displayed on the display device 5 and at the same time allow one-hand operation by the user with the fingers of the hand that is also holding the radio apparatus 1. By means of the control elements 11, ..., 16, the locally directly associated functions, which are displayed on the display device 5, can be selected and/or activated. Because of their disposition on the two short sides of the display device 5, the control elements 11, ..., 16 are located away from the control field 25. In Fig. 10, the basic menu for user guidance is shown on the display device 5. In the exemplary embodiment described here, the basic menu includes a telephone book function, a calculator function, an appointment function, and a text editor function, all as menu subitems. The first control element 11 is associated locally with displaying the telephone book function, the second control element 12 is associated locally with displaying the calculator function, the third control element 13 is disposed locally with displaying the

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appointment function, and the fifth control element 15 is associated locally with displaying the text editor function. The local association is reinforced by arrow-shaped graphic symbols, which can be displayed between the various control elements 11, 12, 13, 15 and the display of the associated functions of the radio apparatus 1 on the display device 5. No functions are assigned to the fourth control element 14 and the sixth control element 16 here. If there are more than six selectable menu subitems, then individual control elements can also be used to switch over to functions of the basic menu that were previously not visible. The display device 5 also includes a first symbol 75 for representing the reception quality by means of the number of lengthwise bars, located away from a stylized radio tower and indicating the broadcasting of a transmission signal, and a second symbol 80 for representing the charge state of the battery of the radio apparatus 1. By entering a telephone number using the alphanumeric 10-key keypad 30, the basic menu, or the current display on the display device 5, is replaced by the display of the telephone number entered, as shown in Fig. 2; the entered telephone number forms a main menu item, for which two menu subitems are also shown on the display device 5. That is, the function of entering the dialed telephone number into redial is assigned as a menu subitem to the second control element 12, and the function of storing the entered telephone number in a telephone number memory of the radio apparatus 1 is assigned as a menu subitem to the third control element 13. By actuation of the second control element 12, the corresponding function is activated, and a redial with the entered telephone number is performed. When the third control element 13 is actuated, once again the corresponding function is activated, and the entered telephone number is stored in the telephone number memory.

When the party called via the radio apparatus 1 accepts the call, or if an incoming call is accepted by actuation of the first fork contact key 25, whatever is currently displayed on the display device 5 disappears, and a screen defining the call status is shown on the display device 5, as shown in Fig. 3. The main menu item here is the word "call", and the length of the call is inserted. The number called and optionally the name of the person called from the radio apparatus 1 or calling in are also shown. The fifth control element 15 is assigned a recording function, so that by actuation of the fifth control element 15, a recording of the current call is made. Taking the exemplary embodiment of Fig. 3 as the point of departure, in Fig. 4 a name can be associated with the called number, shown on the display device 5, of the person called in the radio apparatus 1; this name is also shown on the display device 5. If during the call the radio apparatus 1 receives a call from a third person, this can once again be shown on the display device 5, thanks to digital switching technology. The third control element 13 is then assigned a function, as a menu subitem, by which upon actuation of the third control element 13, while maintaining the original connection, the call coming in in the meantime can also be accepted. In this way, two speech connections can be set up simultaneously. After the second call is accepted by actuating the third control element 13, an expansion of the screen, beginning with the screen shown in Fig. 4, is made in accordance with Fig. 5. The main menu item then is the call currently being conducted, whose length and calling number of the associated person being called are also inserted. In Fig. 5a), this is the second call that has been accepted during the original call. The second control element 12 is assigned the function of taking over the first call, which is done upon actuation of the second control element 12. The third control element 13 in this case



has no function and instead is merely assigned the information that the second call is currently being conducted. For the sixth control element 16, the assigned function is a conference call, so that when the sixth control element 16 is actuated a conference call among all three persons is established. The recording function assigned to the fifth control element 15 is still operative, as in Figs. 4 and 3.

In Fig. 5b), the screen on the display device 5 is shown that results after the switchover from the second call to the original call by actuation of the second control element 12. As the main menu item then, the first call is made the current call, and its length and the telephone number of the associated party in the call are inserted. The function of the third control element 13 is now to take over the second call, which is done upon actuation of the third control element 13. The second control element 12 is now assigned only the information that the original call is being conducted, so that upon actuation of the second control element 12, no function is activated. The recording and conference call functions are realized in Fig. 5b) the same way as in Fig. 5a).

If when the basic menu in Fig. 10 is displayed the first control element 11 is actuated, then the telephone book function is selected as a menu subitem, and it is then shown on the display device 5 as the new main menu item as in Fig. 6. As the menu subitem for the telephone book function, an entry in the telephone number memory is shown on the display device 5. This entry, in the exemplary embodiment of Fig. 6, includes the first and last name of a telephone subscriber. The fourth control element 14, by means of an upward-pointing arrow on the display device 5, is assigned the function of selecting the next party in

the telephone number memory in the direction of the beginning of the alphabet and having it displayed on the display device 5. The sixth control element 16, by means of a downward-pointing arrow on the display device 5, is assigned the function of selecting the next party in the telephone number memory in the direction toward the end of the alphabet and making it be displayed on the display device 5. Via the first control element 11, the telephone number of the telephone subscriber currently shown on the display device 5 is selected from the telephone number memory. This telephone number is visibly assigned to the first control element 11. Via the third control element 13, additional information on the telephone subscriber, currently shown on the display device 5, can be selected from the telephone number memory, which can include for instance the address of this party.

If when the basic menu is shown on the display device 5 as in Fig. 10 the second control element 12 is actuated, then the menu subitem "calculator" is selected, and a switchover to a new screen shown in Fig. 7 is made, where the calculator function is displayed as the new main menu item. Then the first control element 11 is assigned an addition function, the second control element 12 is assigned a subtraction function, the third control element 13 is assigned a multiplication function, the fourth control element 14 is assigned a division function, the fifth control element 15 is assigned a percent function, and the sixth control element 16 is assigned a result function. The input of digits is done via the alphanumeric 10-key keypad 30. A calculation process currently being performed is also displayed on the display device 5.

If, from the basic menu shown on the display device 5 in

Fig. 10, the appointments function is selected as a menu subitem by actuation of the third control element 13, then the appointments function appears as a new main menu item of a new screen on the display device 5 in Fig. 8. Also shown on the new screen of the display device 5 is an entry from an appointments memory of the radio apparatus 1, in the form of an abbreviation or code for of the corresponding appointment. A name is assigned to the appointment. Via the fourth control element 14, with which an upward-pointing arrow in the display device 5 is associated, the next earlier appointment can be selected from the appointments memory and made to be displayed on the display device 5. Via the sixth control element 16, with which a downward-pointing arrow on the display device 5 is associated, the next later entry in the appointments memory can be selected and displayed on the display device 5. Analogously to the telephone book function, naturally some other order than alphabetic order is also conceivable, for instance with the number of letters or the like. The date and time of the appointment currently shown on the display device is assigned to the first control element 11. When the first control element is actuated, this appointment is selected as a menu subitem and shown as a new main menu item in a new screen on the display device 5, which makes it possible to change this appointment. Upon actuation of the third control element 13, the function "new appointment" is selected, and once again, by means of a new screen, it appears as a new main menu item, and the new screen on the display device 5 then makes it possible to enter a new appointment, for instance beginning at a zero position.

The entry of a name in the selected telephone book function of Fig. 6 or the selected appointment function of Fig. 8 is done by means of the alphanumeric 10-key keypad 30; A single display

of this entry is made on the display device 5. The current entry is always made at a position on this displayed line that is represented by a blinking cursor 85. The position of the cursor 85 can be shifted to the left or right in this line by means of the second control element 12 and the fifth control element 15, respectively, as is graphically illustrated by the arrow directions on the display device 5 associated with these control elements 12, 15.

The same is also true for entering text on a text editor screen of the display device 5, after the appropriate menu subitem has been selected from the basic menu of Fig. 10 using the fifth control element 15. The text editor screen on the display device 5 is shown in Fig. 9. In the text editor function of Fig. 9, further text can be selected from a text memory of the radio apparatus 1 and made to be shown on the display device 5 by actuation of the fourth control element 14 or sixth control element 16. An upward-pointing arrow on the display device 5 is then assigned to the fourth control element 14, and a downward-pointing arrow on the display device 5 is associated with the sixth control element 16. Upon actuation of the fourth control element 14, the text memory is run through in a first direction, for instance toward the beginning of the alphabet, to select a stored text. Upon actuation of the sixth control element 16, the text memory is run through in a second direction opposite the first, toward the end of the alphabet, to select a stored text. Upon actuation of the first control element 11, a send function is called up, and then a new screen is shown on the display device 5 for entering the desired person to be called or his telephone number.

The invention is not limited to the exemplary embodiments

described. Instead, arbitrary other screens are conceivable, in which control elements 11, ..., 16 are given assignments analogously, preferably using arrow-shaped graphic symbols, for improved association with corresponding displays on the display device 5 of functions of the radio apparatus. These displays can also be stored in memory in color for the sake of better association. The control elements 11, ..., 16 can also be made capable of lighting up. As needed, the display device 5 can also be made larger or smaller and can be flanked by more or fewer control elements.

## Claims

1. A radio apparatus (1), in particular a radio telephone, having a display device (5), characterized in that at least one control element (11, ..., 16) for selecting and/or activating functions of the radio apparatus (1) that can be displayed on the display device (5) is provided, and that the at least one control element (11, ..., 16) is disposed in the preferably immediate vicinity of the display device (5), so that a local association exists between the at least one control element (11, ..., 16) and the display of the functions of the radio apparatus one on the display device (5).

2. The radio apparatus of claim 1, characterized in that between the at least one control element (11, ..., 16) and the display of the associated functions of the radio apparatus (1) on the display device (5), graphic symbols preferably shaped as arrows can be displayed on the display device (5).

3. The radio apparatus (1) of claim 1 or 2, characterized in that the display device (5) is substantially rectangular and is disposed on an upper surface (20) of the housing of the radio apparatus (1), and that at least one control element (11, ..., 16) is disposed on at least one side of the display device (5).

4. The radio apparatus (1) of claim 1, 2 or 3, characterized in that the at least one control element (11, ..., 16) can light up.

5. The radio apparatus (1) of one of the foregoing claims, characterized in that via the at least one control element (11,

..., 16), subitems in an operating menu can be selected and/or activated.

6. The radio apparatus (1) of one of the foregoing claims, characterized in that via the at least one control element (11, ..., 16), entries in a telephone number memory disposed in the radio apparatus one can be selected and/or activated.

7. The radio apparatus (1) of one of the foregoing claims, characterized in that a control field (25), preferably with an alphanumeric keypad (30), is provided, and that the at least one control element (11, ..., 16) is located away from the control field (25).

8. The radio apparatus (1) of one of the foregoing claims, characterized in that the at least one control element (11, ..., 16) is disposed in the preferably immediate vicinity of the peripheral region of the upper service (20) of the housing of the radio apparatus (1).

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## Abstract

A radio apparatus (1), in particular a radio telephone,  
that serves to guide the user is proposed. The radio apparatus  
(1) includes a display device (5). In addition, at least one  
control element (11, ..., 16) is provided for selecting and/or  
activating functions of the radio apparatus (1) that can be  
displayed on the display device (5). The at least one control  
element (11, ..., 16) is disposed in the preferably immediate  
vicinity of the display device (5), so that a local association  
exists between the at least one control element (11, ..., 16) and  
the display of the functions of the radio apparatus (1) on the  
display device (5).

(Fig. 1)



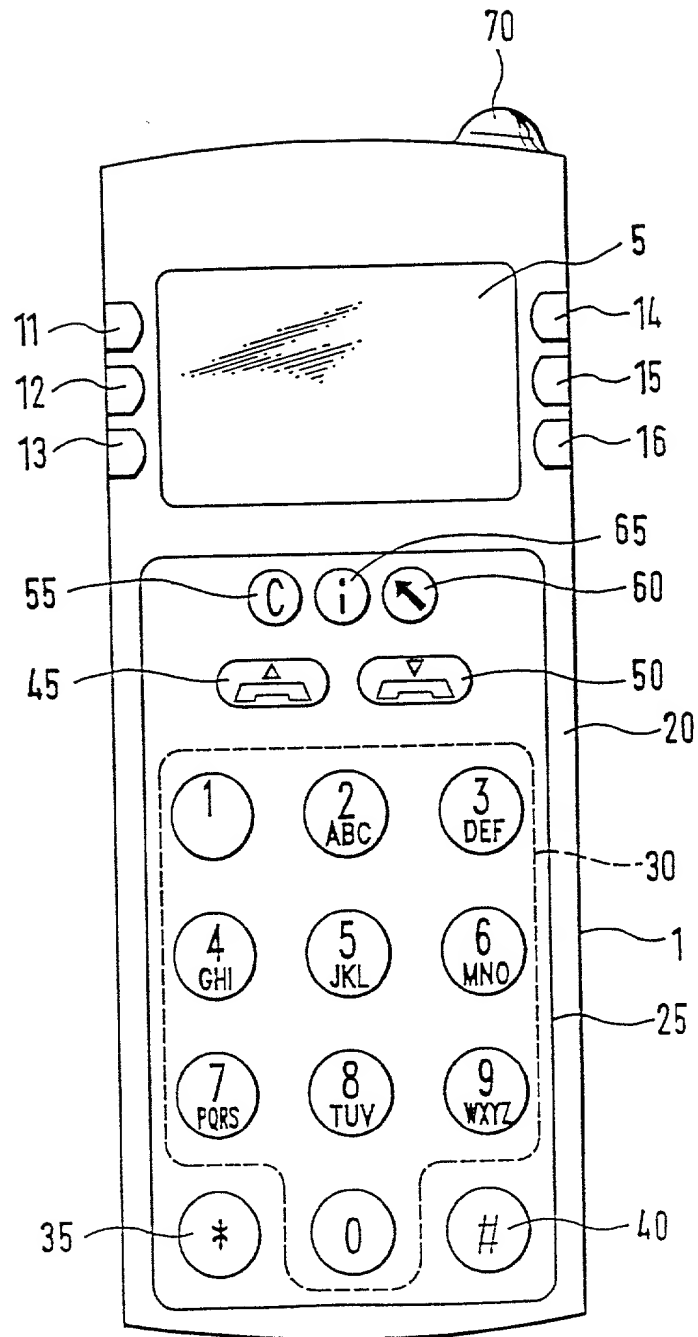


Fig. 1

Fig. 2

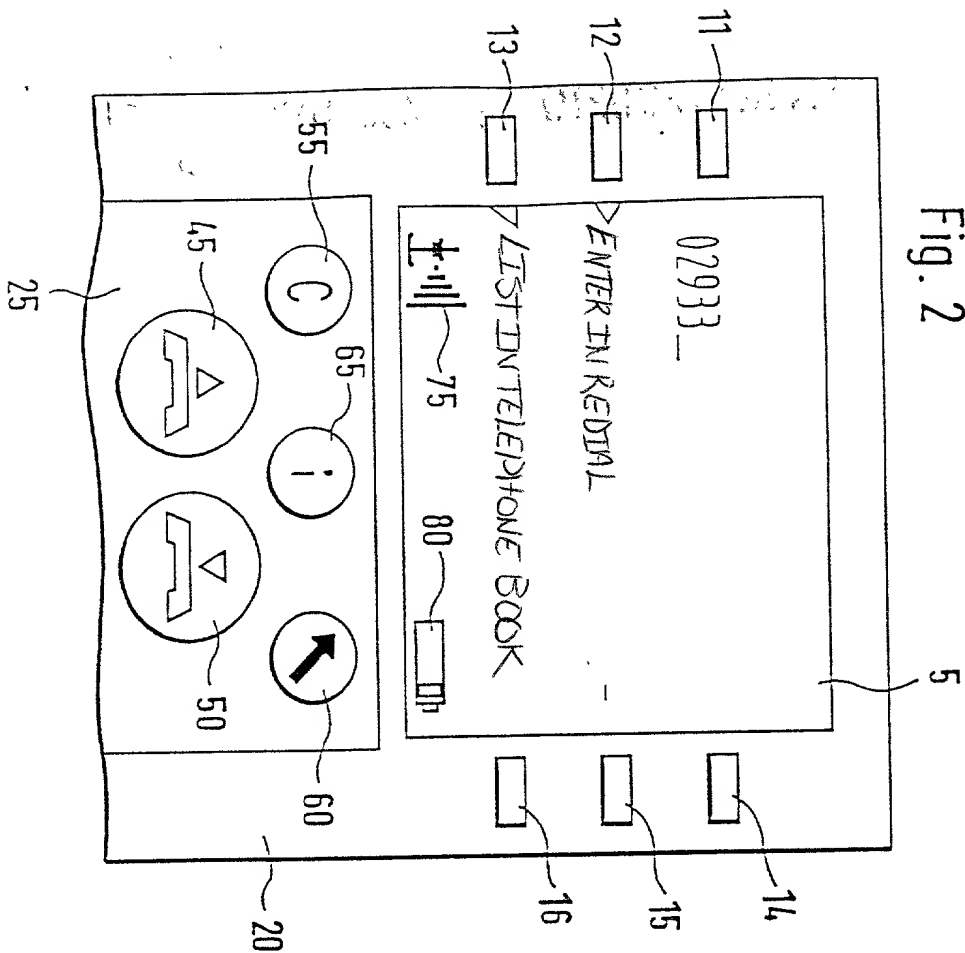


Fig. 3

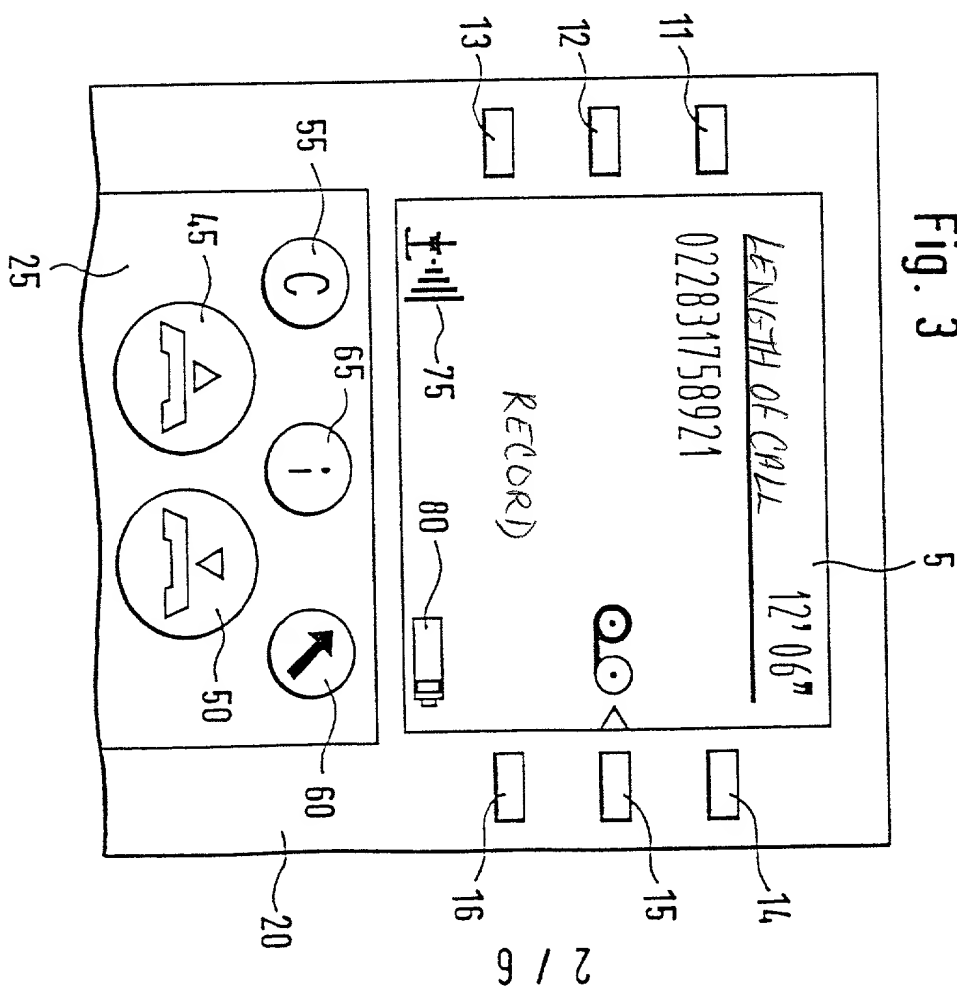


Fig. 4

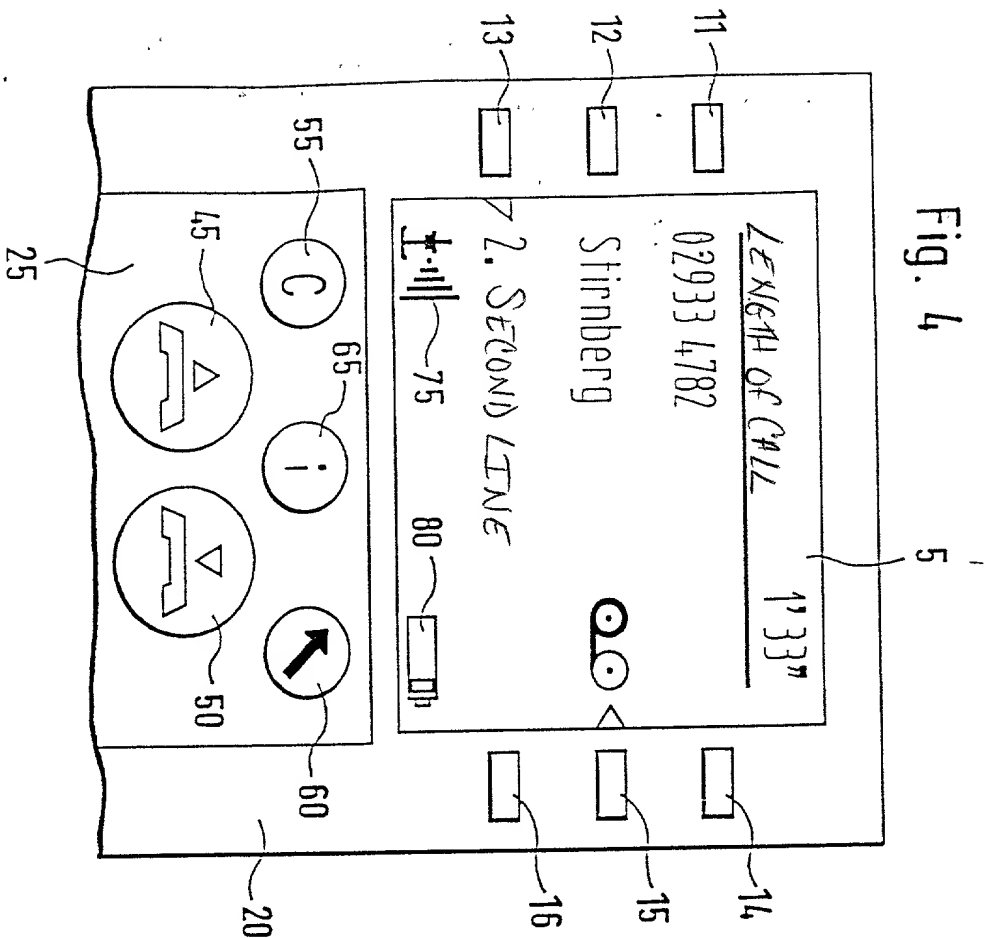


Fig. 6

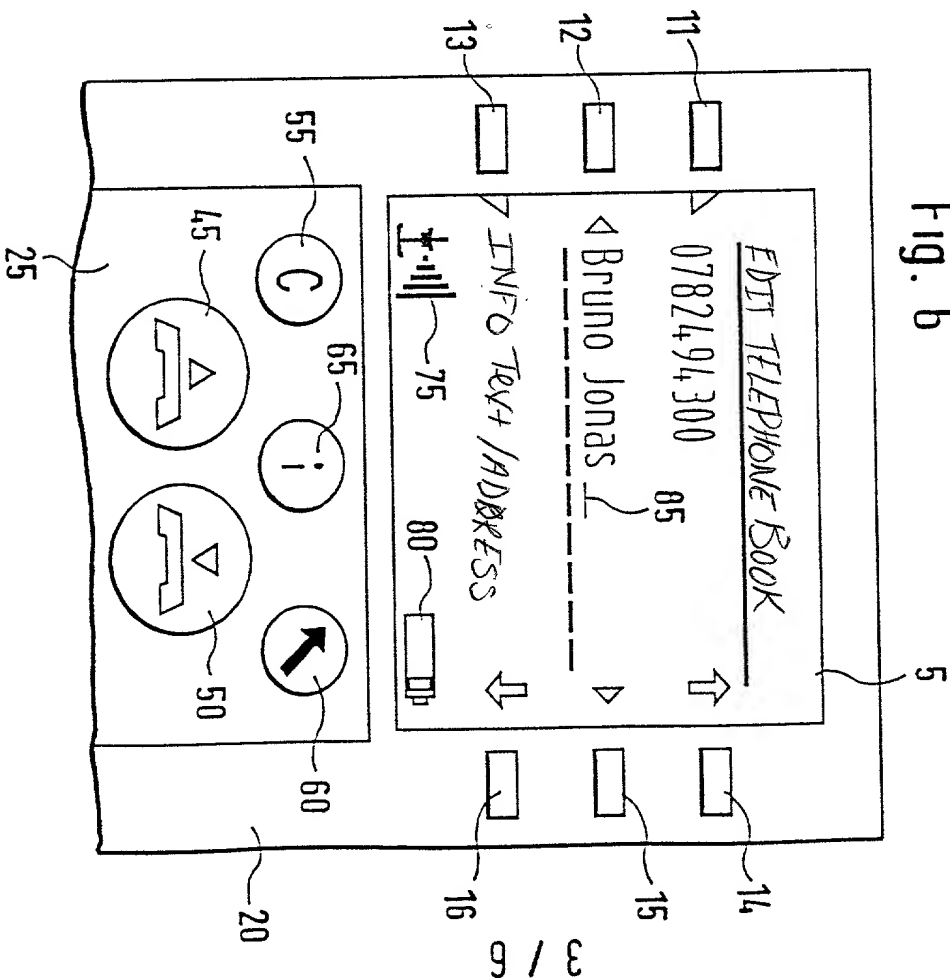


Fig. 5a

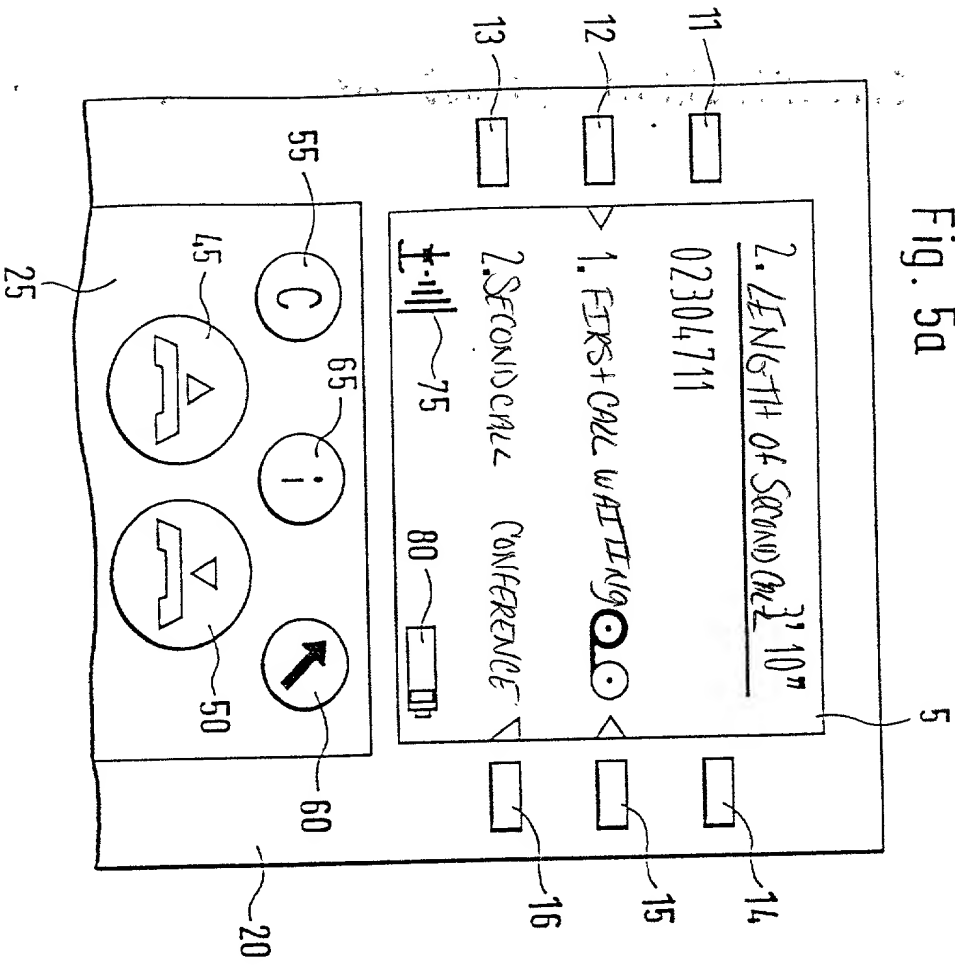


Fig. 5b

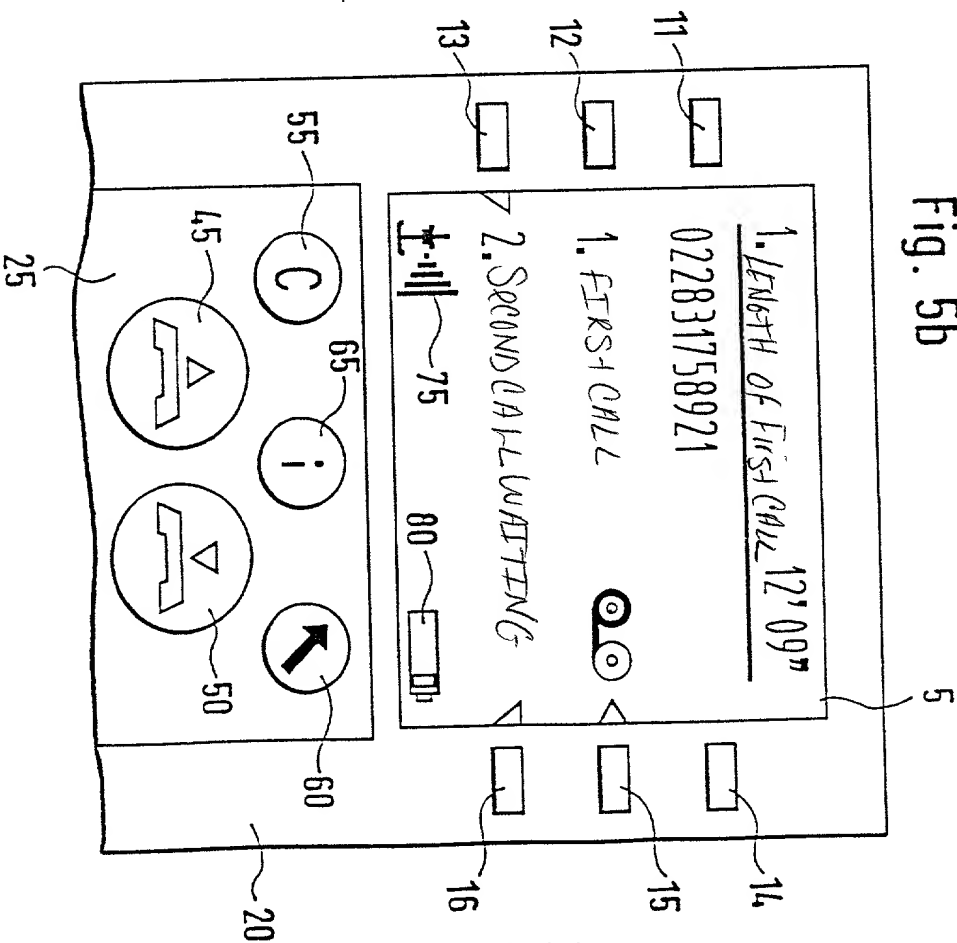


Fig. 7

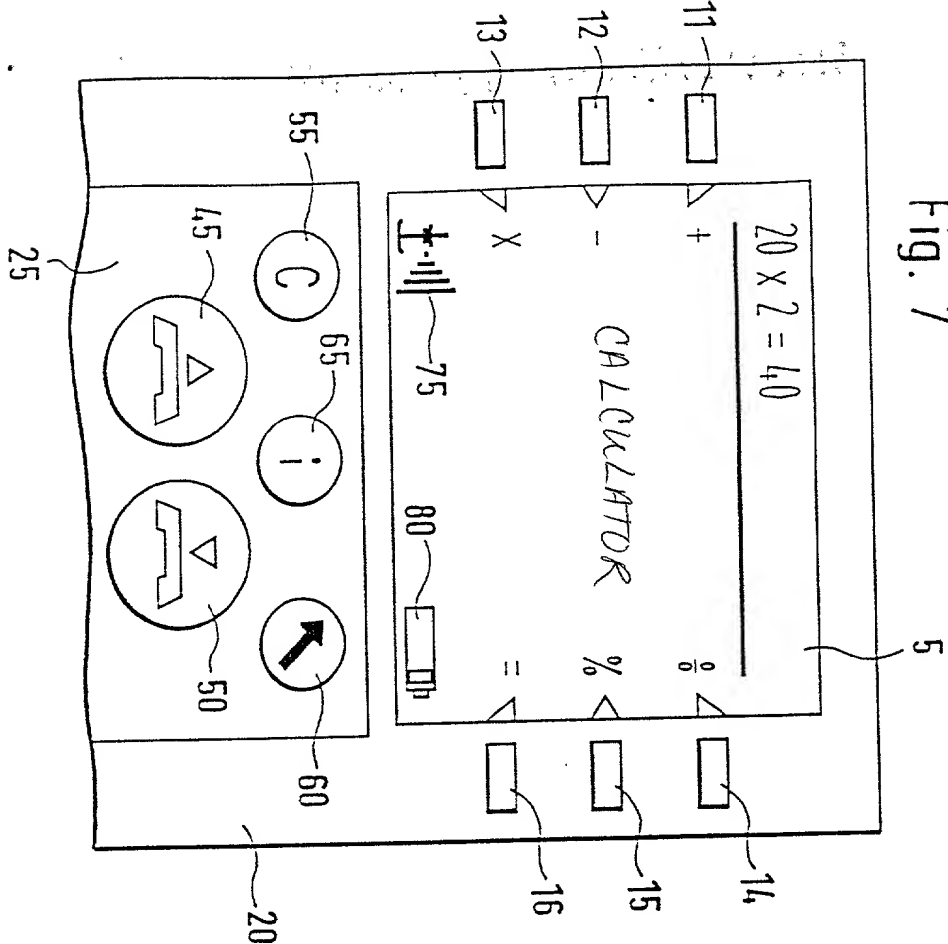


Fig. 8

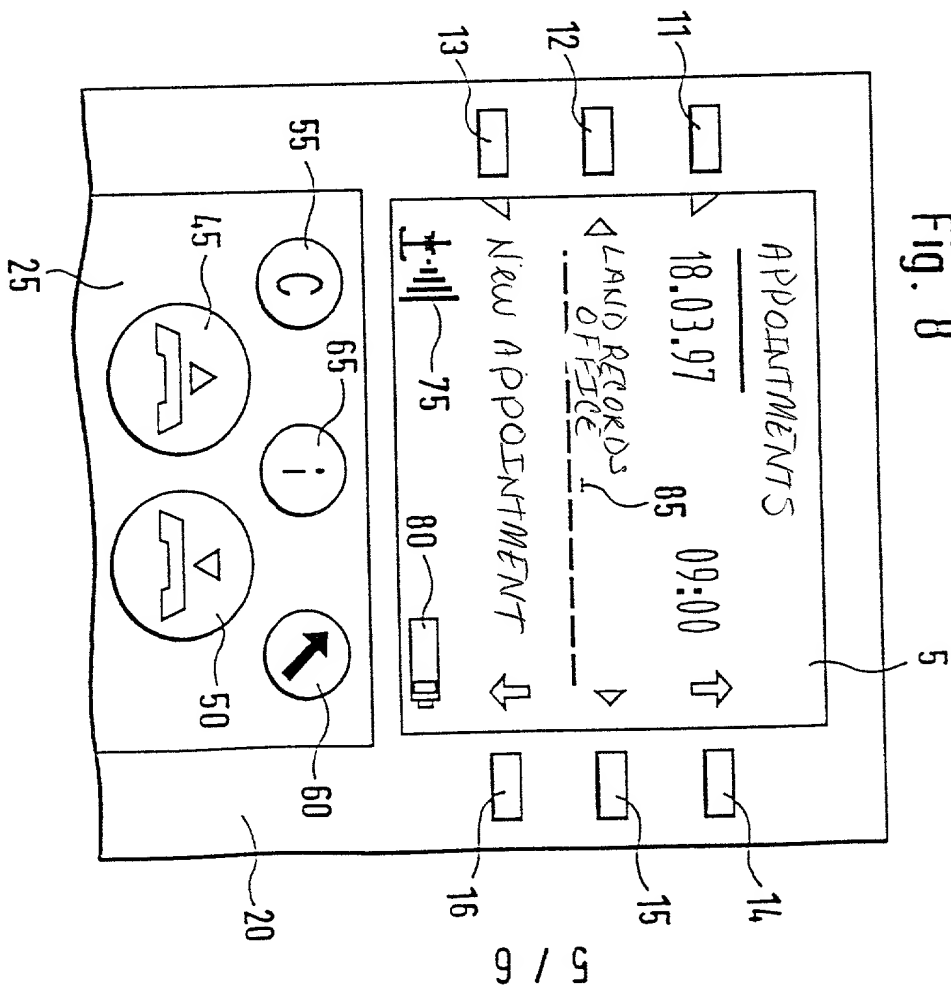


Fig. 9

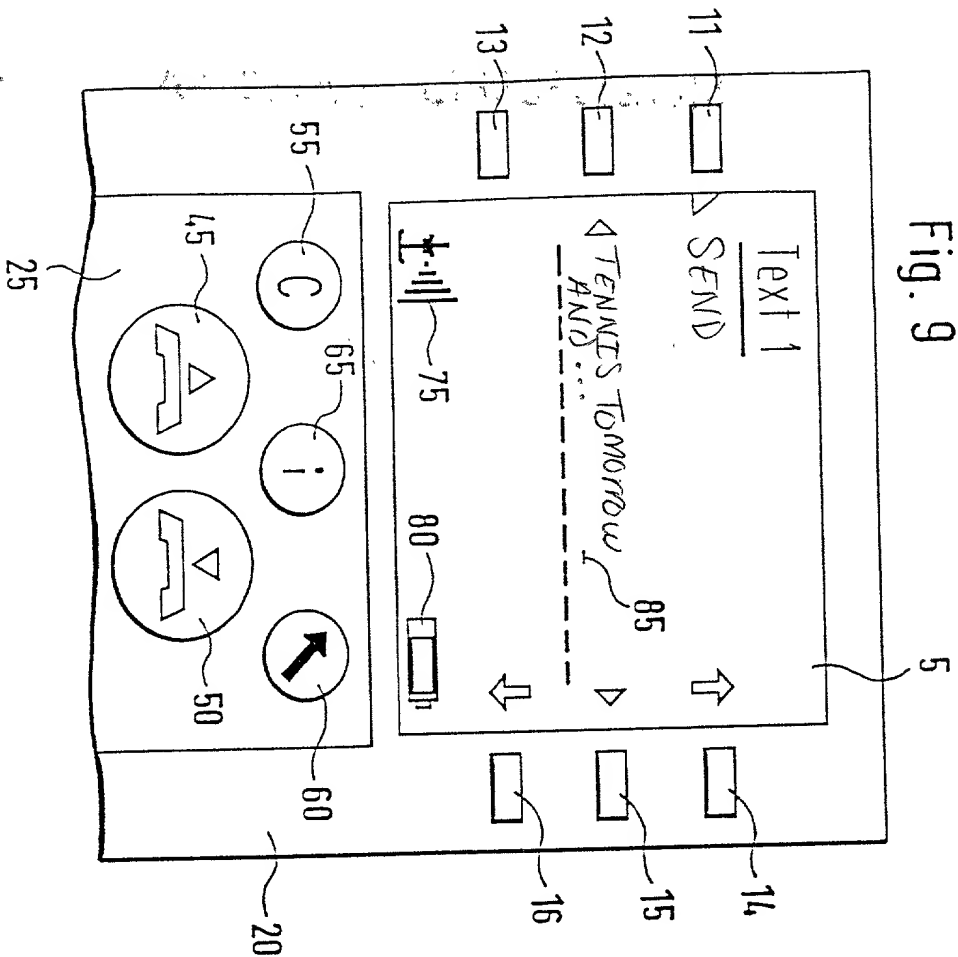
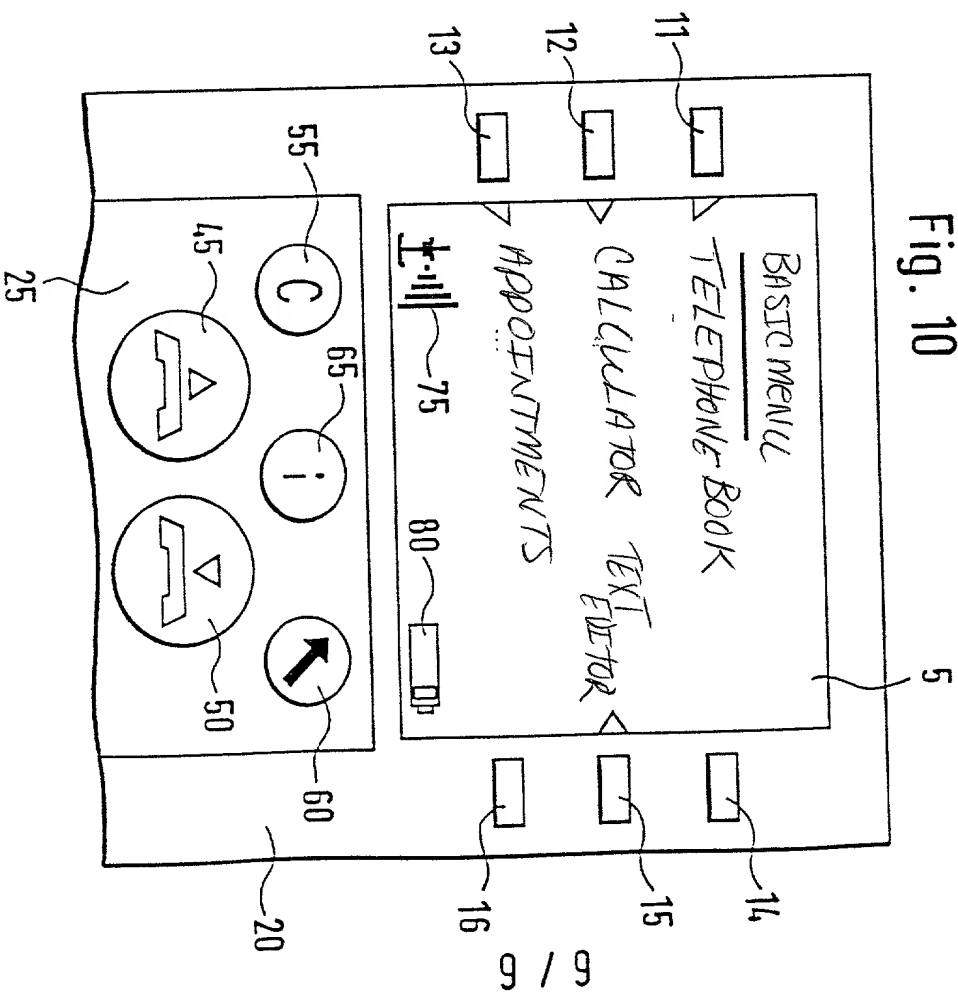


Fig. 10



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DECLARATION AND POWER OF ATTORNEY FOR NATIONAL STAGE OF PCT PATENT APPLICATION

As a below-named inventor, I hereby declare that:

Wolfgang WEIDNER  
Hans MURGAS  
Bernt KLEIN

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **RADIO APPARATUS** the specification of which was filed as PCT International Application number PCT/DE 98/00482 on February 18, 1998.

I hereby state that I believe the named inventor or inventors in this Declaration to be the original and first inventor or inventors of the subject matter which is claimed and for which a patent is sought.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior foreign application(s):

Priority claimed:

<u>197 06 595.3</u>	<u>DE</u>	<u>FEBRUARY 20, 1997</u>	<u>X</u>	
(Number)	(Country)	(Date filed)	Yes	No
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>Yes</u>	<u>No</u>
(Number)	(Country)	(Date filed)	Yes	No

As a named inventor, I hereby appoint the following attorney to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Michael J. Striker, Reg. No. 27233  
Ilya Zborovsky, Reg. No. 28563  
William G. Valance, Reg. No. 28275.

Direct all telephone calls to Striker, Striker & Stenby at telephone no.: (516) 549 4700 and address and all correspondence to:

~~STRIKER, STRIKER & STENBY~~  
103 East Neck Road  
Huntington, New York 11743  
U.S.A.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or

667 06 595.3

imprisonment, or both, under Section 1

[illegible]